

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
27 January 2005 (27.01.2005)

PCT

(10) International Publication Number
WO 2005/008068 A1

(51) International Patent Classification⁷: **F04B 35/00**,
27/08, F16D 9/00, 7/00, F04C 29/00, 29/10

(72) Inventor; and

(75) Inventor/Applicant (for US only): UMEMURA, Yukio
[JP/JP].

(21) International Application Number:
PCT/JP2004/010524

(74) Agents: MIYOSHI, Hidekazu et al.; Toranomon Daiichi
Building 9th Floor, 2-3, Toranomon 1-chome, Minato-ku,
Tokyo, 1050001 (JP).

(22) International Filing Date: 16 July 2004 (16.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2003-276727 18 July 2003 (18.07.2003) JP
2004-083478 22 March 2004 (22.03.2004) JP

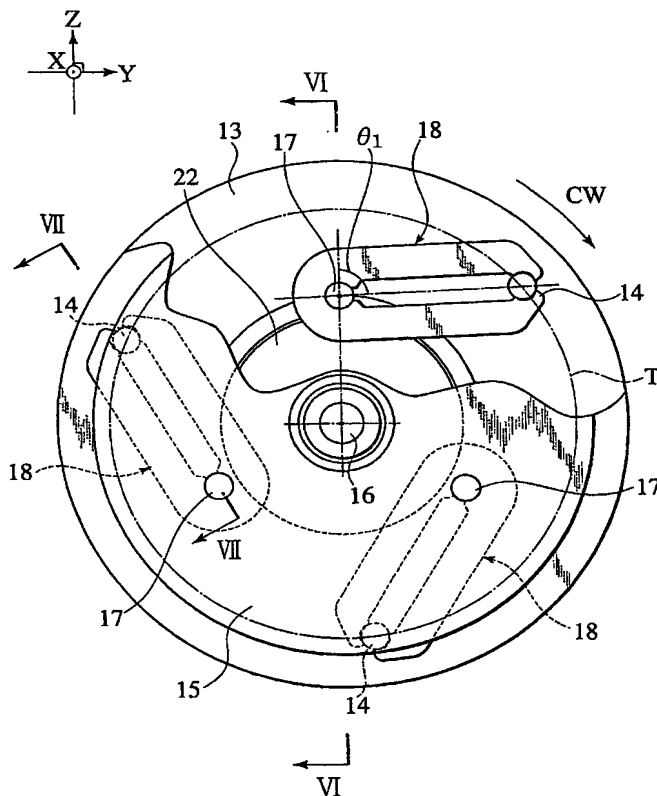
(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG,
KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG,
MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH,
PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,
TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(71) Applicant (for all designated States except US): Calsonic
Kansei Corporation [JP/JP]; 24-15, Minamidai 5-chome,
Nakano-ku, Tokyo, 1648602 (JP).

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,

[Continued on next page]

(54) Title: POWER TRANSMISSION DEVICE, METHOD FOR MANUFACTURING THE SAME AND COMPRESSOR



(57) Abstract: A power transmission device (11) has a pulley (13), a hub (15), a first pin (14), a second pin (17) and a coupling member (18). The coupling member (18) is of a forked leaf spring which is substantially U-shaped and has a pair of sidepiece portions, a pair of bent portions, a pair of joining portions and a curved portion. The sidepiece portions are disposed parallel to each other. The bent portions are configured to extend from the sidepiece portions and have sandwich portions releasably supporting the first pin (14) mounted on the pulley (13), respectively. Each sandwich portion has an inside surface which is opposed to the outside circumferential surface of the first pin (14) at a regular distance, and a first and second projections which are provided at both ends of the inside surface and contacted with the outside circumferential surface of the first pin (14).

WO 2005/008068 A1

BEST AVAILABLE COPY



ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.